



PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM

Search PubMed for mirzabekov a

Go Clear

Limits Preview/Index History Clipboard Data

About Entrez

Display Summary Show: 200 Sort Send to Text

Text Version

Items 1-171 of 171

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Browser
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Related Resources
Order Documents
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Privacy Policy

- ☐ 1: Kelly JJ, Chernov BK, Tovstanoysky I, Mirzabekov AD, Bavykin SG. Related
Radical-generating coordination complexes as tools for rapid and effective
fragmentation and fluorescent labeling of nucleic acids for microchip hyb
Anal Biochem. 2002 Dec 15;311(2):103-18.
PMID: 12470669 [PubMed - in process]
- ☐ 2: Zasedatcheva OA, Krylov AS, Prokopenko DV, Skabkin MA, Ovchinnikov LP. Related
Kolchinsky A, Mirzabekov AD.
Specificity of mammalian Y-box binding protein p50 in interaction with
DNA analyzed with generic oligonucleotide microchip.
J Mol Biol. 2002 Nov 15;324(1):73-87.
PMID: 12421560 [PubMed - indexed for MEDLINE]
- ☐ 3: Barsky V, Perov A, Tokalov S, Chudinov A, Kreindlin E, Sharonov A, Kotova E. Related
Mirzabekov A.
Fluorescence data analysis on gel-based biochips.
J Biomol Screen. 2002 Jun;7(3):247-57.
PMID: 12097187 [PubMed - indexed for MEDLINE]
- ☐ 4: Besschetnova IA, Chudinov AV, Kaliuzhnyi DN, Shchelkina AK, Borisova OE. Related
Tokalov SV, Kuznetsova VE, Lobanov AV, Rumiantseva VD, Barskii VE,
Mirzabekov AD.
[Fluorescence of meso-tetrakis(4-(carboxy)phenyl)porphine covalently b
oligonucleotides d(CG)5 and d(TA)5]
Biofizika. 2002 Mar-Apr;47(2):259-67. Russian.
PMID: 11969162 [PubMed - indexed for MEDLINE]
- ☐ 5: Mirzabekov AD, Lastity D, Levina ES, Bayev AA. Related
Self-assembly of transfer RNA fragments.
FEBS Lett. 1970 Mar 16;7(1):95-98. No abstract available.
PMID: 11947440 [PubMed - as supplied by publisher]
- ☐ 6: Mirzabekov AD, Levina ES, Bayev AA. Related
Hybridization of heterologous fragments of tRNA from yeast, rat liver an
FEBS Lett. 1969 Nov 12;5(3):218-220. No abstract available.
PMID: 11947281 [PubMed - as supplied by publisher]
- ☐ 7: Mirzabekov AD, Lastity D, Bayev AA. Related
Acceptor activity of incomplete aggregate molecules of valine tRNA 1 cc
four fragments.
FEBS Lett. 1969 Aug;4(4):281-284. No abstract available.
PMID: 11947204 [PubMed - as supplied by publisher]
- ☐ 8: Mirzabekov AD, Kazarinova IY, Lastity D, Bayev AA. Related
Enzymatic aminoacylation of dissected molecules of baker's yeast valine
FEBS Lett. 1969 Jun;3(4):268-270. No abstract available.

PMID: 11947026 [PubMed - as supplied by publisher]

- 9: Nasedkina T, Domer P, Zharinov V, Hoberg J, Lysov Y, Mirzabekov A. Related
 Identification of chromosomal translocations in leukemias by hybridization of oligonucleotide microarrays.
 Haematologica. 2002 Apr;87(4):363-72.
 PMID: 11940480 [PubMed - indexed for MEDLINE]
- 10: Kolchinsky A, Mirzabekov A. Related
 Analysis of SNPs and other genomic variations using gel-based chips.
 Hum Mutat. 2002 Apr;19(4):343-60. Review.
 PMID: 11933189 [PubMed - indexed for MEDLINE]
- 11: Skotnikova OI, Soboleva Alu, Mikhailovich VM, Griadunov DA, Irtuganova OA, Nosova Elu, Isaeva EL, Lapa SA, Zasedatelev AS, Litvinov VI, Moroz AM, Mirzabekov AD. Related
 [Molecular genetic methods for the detection of rifampicin-resistant Mycobacterium tuberculosis strains]
 Vestn Ross Akad Med Nauk. 2002;(2):36-9. Russian.
 PMID: 11924126 [PubMed - indexed for MEDLINE]
- 12: Lapa S, Mikheev M, Shchelkunov S, Mikhailovich V, Sobolev A, Blinov V, Babkin I, Guskov A, Sokunova E, Zasedatelev A, Sandakhchiev L, Mirzabekov A. Related
 Species-level identification of orthopoxviruses with an oligonucleotide microarray.
 J Clin Microbiol. 2002 Mar;40(3):753-7.
 PMID: 11880388 [PubMed - indexed for MEDLINE]
- 13: Mirzabekov A, Kolchinsky A. Related
 Emerging array-based technologies in proteomics.
 Curr Opin Chem Biol. 2002 Feb;6(1):70-5. Review.
 PMID: 11827826 [PubMed - indexed for MEDLINE]
- 14: Iesenko DO, Nasedkina TV, Mirzabekov AD. Related
 A bacterial microchip: the principle of operation as exemplified by detection of antibiotics.
 Dokl Biochem Biophys. 2001 Nov-Dec;381:427-9. No abstract available.
 PMID: 11813561 [PubMed - indexed for MEDLINE]
- 15: Rubina A, Pan'kov SV, Ivanov SM, Dement'eva EI, Mirzabekov AD. Related
 Protein microchips.
 Dokl Biochem Biophys. 2001 Nov-Dec;381:419-22. No abstract available.
 PMID: 11813559 [PubMed - indexed for MEDLINE]
- 16: Griadunov DA, Mikhailovich VM, Noskov AN, Lapa SA, Sobolev A, Pan'kov SV, Rubina A, Zasedatelev AS, Mirzabekov AD. Related
 Detection of Bacillus anthracis using multiplex PCR on the oligonucleotide microarray.
 Dokl Biochem Biophys. 2001 Nov-Dec;381:384-6. No abstract available.
 PMID: 11813549 [PubMed - indexed for MEDLINE]
- 17: Liu WT, Mirzabekov AD, Stahl DA. Related
 Optimization of an oligonucleotide microchip for microbial identification using a non-equilibrium dissociation approach.
 Environ Microbiol. 2001 Oct;3(10):619-29.
 PMID: 11722542 [PubMed - indexed for MEDLINE]
- 18: Lebed JB, Chechetkin VR, Turygin AY, Shick VV, Mirzabekov AD. Related
 Comparison of complex DNA mixtures with generic oligonucleotide microarrays.

J Biomol Struct Dyn. 2001 Jun;18(6):813-23.
PMID: 11444370 [PubMed - indexed for MEDLINE]

- 19: Mikhailovich V, Lapa S, Gryadunov D, Sobolev A, Strizhkov B, Chernyh N, Skornikova O, Irtuganova O, Moroz A, Litvinov V, Vladimirov M, Perelman M, Chernousova L, Erokhin V, Zasedatelev A, Mirzabekov A. Related
Identification of rifampin-resistant Mycobacterium tuberculosis strains by hybridization, PCR, and ligase detection reaction on oligonucleotide microchips. J Clin Microbiol. 2001 Jul;39(7):2531-40.
PMID: 11427565 [PubMed - indexed for MEDLINE]

- 20: Krylov AS, Zasedateleva OA, Prokopenko DV, Rouviere-Yaniv J, Mirzabekov AD. Related
Massive parallel analysis of the binding specificity of histone-like protein single- and double-stranded DNA with generic oligodeoxyribonucleotide microchips. Nucleic Acids Res. 2001 Jun 15;29(12):2654-60.
PMID: 11410675 [PubMed - indexed for MEDLINE]

- 21: Timofeev E, Mirzabekov A. Related
Binding specificity and stability of duplexes formed by modified oligonucleotides with a 4096-hexanucleotide microarray. Nucleic Acids Res. 2001 Jun 15;29(12):2626-34.
PMID: 11410672 [PubMed - indexed for MEDLINE]

- 22: Vasiliskov VA, Prokopenko DV, Mirzabekov AD. Related
Parallel multiplex thermodynamic analysis of coaxial base stacking in DNA duplexes by oligodeoxyribonucleotide microchips. Nucleic Acids Res. 2001 Jun 1;29(11):2303-13.
PMID: 11376149 [PubMed - indexed for MEDLINE]

- 23: Zlatanova J, Mirzabekov A. Related
Gel-immobilized microarrays of nucleic acids and proteins. Production and application for macromolecular research. Methods Mol Biol. 2001;170:17-38. No abstract available.
PMID: 11357680 [PubMed - indexed for MEDLINE]

- 24: Mikhailovich VM, Lapa SA, Gryadunov DA, Strizhkov BN, Sobolev AY, Skornikova OI, Irtuganova OA, Moroz AM, Litvinov VI, Shipina LK, Vladimirov MA, Chernousova LN, Erokhin VV, Mirzabekov AD. Related
Detection of rifampicin-resistant Mycobacterium tuberculosis strains by hybridization and polymerase chain reaction on a specialized TB-microchip. Bull Exp Biol Med. 2001 Jan;131(1):94-8.
PMID: 11329093 [PubMed - indexed for MEDLINE]

- 25: Tilib SV, Strizhkov BN, Mirzabekov AD. Related
Integration of multiple PCR amplifications and DNA mutation analyses on oligonucleotide microchip. Anal Biochem. 2001 May 1;292(1):155-60.
PMID: 11319830 [PubMed - indexed for MEDLINE]

- 26: Tilib SV, Mirzabekov AD. Related
Advances in the analysis of DNA sequence variations using oligonucleotide microchip technology. Curr Opin Biotechnol. 2001 Feb;12(1):53-8. Review.
PMID: 11167073 [PubMed - indexed for MEDLINE]

- 27: Studitsky V, Brodolin K, Liu Y, Mirzabekov A. Related

Topography of lacUV5 initiation complexes.
Nucleic Acids Res. 2001 Feb 1;29(3):854-61.
PMID: 11160910 [PubMed - indexed for MEDLINE]

- 28: Bavykin SG, Akowski JP, Zakhariev VM, Barsky VE, Perov AN, Mirzabekov AD. Related
Portable system for microbial sample preparation and oligonucleotide mi-
analysis.
Appl Environ Microbiol. 2001 Feb;67(2):922-8.
PMID: 11157263 [PubMed - indexed for MEDLINE]
- 29: Strizhkov BN, Drobyshch AL, Mikhailovich VM, Mirzabekov AD. Related
PCR amplification on a microarray of gel-immobilized oligonucleotides:
of bacterial toxin- and drug-resistant genes and their mutations.
Biotechniques. 2000 Oct;29(4):844-8, 850-2, 854 passim.
PMID: 11056816 [PubMed - indexed for MEDLINE]
- 30: LaForge KS, Shick V, Spangler R, Proudnikov D, Yuferov V, Lysov Y, Mirzabekov A, Kreck MJ. Related
Detection of single nucleotide polymorphisms of the human mu opioid re-
gene by hybridization or single nucleotide extension on custom oligonucleo-
tide microchips: potential in studies of addiction.
Am J Med Genet. 2000 Oct 9;96(5):604-15.
PMID: 11054767 [PubMed - indexed for MEDLINE]
- 31: Chechetkin VR, Turygin AY, Proudnikov DY, Prokopenko DV, Kirillov EV, Mirzabekov AD. Related
Sequencing by hybridization with the generic 6-mer oligonucleotide micro-
array: an advanced scheme for data processing.
J Biomol Struct Dyn. 2000 Aug;18(1):83-101.
PMID: 11021654 [PubMed - indexed for MEDLINE]
- 32: Proudnikov D, Kirillov E, Chumakov K, Donlon J, Rezapkin G, Mirzabekov A. Related
Analysis of mutations in oral poliovirus vaccine by hybridization with ge-
l-immobilized oligonucleotide microchips.
Biologicals. 2000 Jun;28(2):57-66.
PMID: 10885613 [PubMed - indexed for MEDLINE]
- 33: Kotova EL, Kreindlin EL, Barskii VE, Mirzabekov AD. Related
[Optical properties of fluorochromes, promising for use in biological mic-
roarrays].
Mol Biol (Mosk). 2000 Mar-Apr;34(2):304-9. Russian. No abstract available.
PMID: 10779959 [PubMed - indexed for MEDLINE]
- 34: Kotova EL, Kreindlin EL, Barskii VE, Mirzabekov AD. Related
[Mutual effect of oligonucleotides and fluorescent probes on the effective-
ness of hybridization with oligonucleotides, immobilized on biological microchip].
Mol Biol (Mosk). 2000 Mar-Apr;34(2):237-45. Russian. No abstract available.
PMID: 10779950 [PubMed - indexed for MEDLINE]
- 35: Surzhikov SA, Timofeev EN, Chernov BK, Golova JB, Mirzabekov AD. Related
Advanced method for oligonucleotide deprotection.
Nucleic Acids Res. 2000 Apr 15;28(8):F29.
PMID: 10734206 [PubMed - indexed for MEDLINE]
- 36: Stomakhin AA, Vasiliskov VA, Timofeev E, Schulga D, Cotter RJ, Mirzabekov AD. Related
DNA sequence analysis by hybridization with oligonucleotide microchip.

mass spectrometry identification of 5mers contiguously stacked to microoligonucleotides.

Nucleic Acids Res. 2000 Mar 1;28(5):1193-8.

PMID: 10666462 [PubMed - indexed for MEDLINE]

- 37: Arenkov P, Kukhtin A, Gemmell A, Voloshchuk S, Chupreeva V, Mirzabekov A. Related

Protein microchips: use for immunoassay and enzymatic reactions.

Anal Biochem. 2000 Feb 15;278(2):123-31.

PMID: 10660453 [PubMed - indexed for MEDLINE]

- 38: Fayorov AV, Liyshits MA, Mirzabekov AD. Related

[Hybridization of DNA with an oligonucleotide microchip. Correlation at screening for errors]

Mol Biol (Mosk). 1999 May-Jun;33(3):428-32. Russian. No abstract available.

PMID: 10519116 [PubMed - indexed for MEDLINE]

- 39: Drobyshev AL, Zasedatelev AS, Yershov GM, Mirzabekov AD. Related

Massive parallel analysis of DNA-Hoechst 33258 binding specificity with oligodeoxyribonucleotide microchip.

Nucleic Acids Res. 1999 Oct 15;27(20):4100-5.

PMID: 10497276 [PubMed - indexed for MEDLINE]

- 40: Vasiliskov AV, Timofeev EN, Surzhikov SA, Drobyshev AL, Shick VV, Mirzabekov AD. Related

Fabrication of microarray of gel-immobilized compounds on a chip by copolymerization.

Biotechniques. 1999 Sep;27(3):592-4, 596-8, 600 passim.

PMID: 10489618 [PubMed - indexed for MEDLINE]

- 41: Dubiley S, Kirillov E, Mirzabekov A. Related

Polymorphism analysis and gene detection by minisequencing on an array of immobilized primers.

Nucleic Acids Res. 1999 Sep 15;27(18):e19.

PMID: 10471749 [PubMed - indexed for MEDLINE]

- 42: Vasiliskov VA, Timofeev EN, Surzhikov SA, Drobyshev AL, Shik VV, Mirzabekov AD. Related

[A method for preparing microchips using copolymerization with acrylamide]

Mol Biol (Mosk). 1998 Sep-Oct;32(5):923-5. Russian. No abstract available.

PMID: 9914982 [PubMed - indexed for MEDLINE]

- 43: Proudnikov D, Timofeev E, Mirzabekov A. Related

Immobilization of DNA in polyacrylamide gel for the manufacture of DNA-oligonucleotide microchips.

Anal Biochem. 1998 May 15;259(1):34-41.

PMID: 9606140 [PubMed - indexed for MEDLINE]

- 44: Fotin AV, Drobyshev AL, Proudnikov DY, Perov AN, Mirzabekov AD. Related

Parallel thermodynamic analysis of duplexes on oligodeoxyribonucleotide microchips.

Nucleic Acids Res. 1998 Mar 15;26(6):1515-21.

PMID: 9490800 [PubMed - indexed for MEDLINE]

- 45: Guschin D, Yershov G, Zaslavsky A, Gemmell A, Shick V, Proudnikov D, Arenkov P, Mirzabekov A. Related

Manual manufacturing of oligonucleotide, DNA, and protein microchips.

Anal Biochem. 1997 Aug 1;250(2):203-11.

PMID: 9245440 [PubMed - indexed for MEDLINE]

- 46: Dubiley S, Kirillov E, Lysov Y, Mirzabekov A, Related
 Fractionation, phosphorylation and ligation on oligonucleotide microchip
 enhance sequencing by hybridization.
 Nucleic Acids Res. 1997 Jun 15;25(12):2259-65.
 PMID: 9171075 [PubMed - indexed for MEDLINE]
- 47: Guschin DY, Mobarry BK, Proudnikov D, Stahl DA, Rittmann BE, Mirzabekov AD, Related
 Oligonucleotide microchips as genosensors for determinative and environ-
 studies in microbiology.
 Appl Environ Microbiol. 1997 Jun;63(6):2397-402.
 PMID: 9172361 [PubMed - indexed for MEDLINE]
- 48: Drobyshev A, Mologina N, Shik V, Pobcdinskaya D, Yershov G, Mirzabekov A, Related
 Sequence analysis by hybridization with oligonucleotide microchip: identi-
 beta-thalassemia mutations.
 Gene. 1997 Mar 25;188(1):45-52.
 PMID: 9099858 [PubMed - indexed for MEDLINE]
- 49: Ivanov IB, Ershov GM, Barskii VE, Bel'govskii AI, Kirillov EV, Kreindlin EA, Parinov SV, Mologina NV, Mirzabekov AD, Related
 [Diagnosis of genetic mutations using oligonucleotide microchips]
 Mol Biol (Mosk). 1997 Jan-Feb;31(1):159-67. Russian. No abstract available.
 PMID: 9173236 [PubMed - indexed for MEDLINE]
- 50: Proudnikov D, Mirzabekov A, Related
 Chemical methods of DNA and RNA fluorescent labeling.
 Nucleic Acids Res. 1996 Nov 15;24(22):4535-42.
 PMID: 8948646 [PubMed - indexed for MEDLINE]
- 51: Livshits MA, Mirzabekov AD, Books, Cited in PMC, Related Ar
 Theoretical analysis of the kinetics of DNA hybridization with gel-immol-
 oligonucleotides.
 Biophys J. 1996 Nov;71(5):2795-801.
 PMID: 8913616 [PubMed - indexed for MEDLINE]
- 52: Livshits MA, Mirzabekov AD, LinkOut, Books, R
 [Calculation of kinetics of hybridization of DNA with oligonucleotides fi-
 layer]
 Mol Biol (Mosk). 1996 Sep-Oct;30(5):1158-64. Russian. No abstract available.
 PMID: 8992303 [PubMed - indexed for MEDLINE]
- 53: Timofeev E, Kochetkova SV, Mirzabekov AD, Florentiev VL, Books, Cited in PMC, Related Ar
 Regioselective immobilization of short oligonucleotides to acrylic copoly-
 Nucleic Acids Res. 1996 Aug 15;24(16):3142-8.
 PMID: 8774893 [PubMed - indexed for MEDLINE]
- 54: Parinov S, Barsky V, Yershov G, Kirillov E, Timofeev E, Belgovskiy A, Mirzabekov A, Books, Cited in PMC, Related Ar
 DNA sequencing by hybridization to microchip octa- and decanucleotides
 by stacked pentanucleotides.
 Nucleic Acids Res. 1996 Aug 1;24(15):2998-3004.
 PMID: 8760885 [PubMed - indexed for MEDLINE]

- 55: Yershov G, Barsky V, Belgovskiy A, Kirillov E, Kreindlin E, Ivanov I, Parinov S, Guschin D, Drobishev A, Dubiley S, Mirzabekov A. LinkOut, Books, Free in PMC, Cited in PMC, R
DNA analysis and diagnostics on oligonucleotide microchips.
Proc Natl Acad Sci U S A. 1996 May 14;93(10):4913-8.
PMID: 8643503 [PubMed - indexed for MEDLINE]
- 56: Lysov YP, Gnuchev FN, Mironov AA, Chernyi AA, Beattie KL, Mirzabekov AD. Books, Related Ar
Efficiency of sequencing by hybridization on oligonucleotide matrix supported by measurement of the distance between DNA segments.
DNA Seq. 1996;6(2):65-73.
PMID: 8907303 [PubMed - indexed for MEDLINE]
- 57: Kamashev DE, Esipova NG, Ebralidze KK, Mirzabekov AD. Books, Cited in PMC, Protein, Related Ar
Mechanism of Lac repressor switch-off: orientation of the Lac repressor 1 binding domain is reversed upon inducer binding.
FEBS Lett. 1995 Nov 13;375(1-2):27-30.
PMID: 7498473 [PubMed - indexed for MEDLINE]
- 58: Kamashev DE, Ebralidze KK, Esipova NG, Mirzabekov AD. Books, Related Ar
[Study of the lac repressor, bound to DNA, by a method of covalent DNA crosslinking]
Dokl Akad Nauk. 1995 Sep;344(1):126-9. Russian. No abstract available.
PMID: 8535261 [PubMed - indexed for MEDLINE]
- 59: Mirzabekov AD, Bernardi G, Cohen SN, Grunberg-Manago M, Kisselev IL, Rich A, Skalka AM, Szybalski W, Zachau HG. LinkOut, Books, R
In memoriam Alexander A. Bayev, 1904-1994.
Gene. 1995 Aug 30;162(1):1-3. No abstract available.
PMID: 7557395 [PubMed - indexed for MEDLINE]
- 60: Borisova OF, Shcheyolkina AK, Timofeev EN, Tsybenko SYu, Mirzabekov AD, Florentiev VL. LinkOut, Books, Cited in PMC, R
Stabilization of parallel (recombinant) triplex with propidium iodide.
J Biomol Struct Dyn. 1995 Aug;13(1):15-27.
PMID: 8527027 [PubMed - indexed for MEDLINE]
- 61: Kamashev DE, Ebralidze KK, Esipova NG, Mirzabekov AD. Books, Related Ar
[Effect of an inducer on orientation of the DNA-binding domain of the Lac repressor]
Mol Biol (Mosk). 1995 Jul-Aug;29(4):950-60. Russian.
PMID: 7476960 [PubMed - indexed for MEDLINE]
- 62: Lysov IuN, Chernyi AA, Balaev AA, Gnuchev FN, Beattie KL, Mirzabekov AD. Books, Cited in PMC, Related Ar
[Use of continuous stacking hybridization in sequencing using modified oligonucleotide matrices]
Mol Biol (Mosk). 1995 Jan-Feb;29(1):104-13. Russian.
PMID: 7723751 [PubMed - indexed for MEDLINE]
- 63: Papatsenko DA, Priporova IV, Kukarin AV, Preobrazhenskaja OV, Karpov VL, Mirzabekov AD. LinkOut, Books, R
[Detection of nonhistone proteins, bound with regulatory elements of yeast genes, by UV-crosslinks in intact nuclei]
Mol Biol (Mosk). 1994 Nov-Dec;28(6):1376-82. Russian.
PMID: 7885337 [PubMed - indexed for MEDLINE]

- 64: Kamashev DE, Ebralidze KK, Esipova NG, Mirzabekov AL Books, Domains, Related Ar
[Electrostatic interaction and differences in specific and nonspecific inter-
the Lac-repressor with DNA]
Biofizika. 1994 Nov-Dec;39(6):1101-3. Russian.
PMID: 7873635 [PubMed - indexed for MEDLINE]
- 65: Lysov IuP, Chernyi AA, Balaev AA, Gnuchev FN, Beattie KL, Mirzabekov AD LinkOut, Books, Cited in PMC, R
[Effectiveness of sequencing using stacking hybridization on oligonucleo-
matrices with varying length of immobilized oligonucleotides]
Mol Biol (Mosk). 1994 Jul-Aug;28(4):832-9. Russian.
PMID: 7990811 [PubMed - indexed for MEDLINE]
- 66: Lysov IuP, Mironov AA, Gnuchev FN, Chernyi AA, Mirzabekov AD Books, Related Ar
[Measurement of distances between DNA segments for increasing the eff
of sequencing using hybridization on an oligonucleotide matrix]
Mol Biol (Mosk). 1994 May-Jun;28(3):652-7. Russian.
PMID: 8052256 [PubMed - indexed for MEDLINE]
- 67: Kuznetsova SA, Kanevskii IE, Florent'ev VA, Mirzabekov AD, Shabarova ZA Books, Related Ar
[DNA sequencing by hybridization with oligonucleotides immobilized in
Chemical ligation as a method of expanding the prospects for the method
Mol Biol (Mosk). 1994 Mar-Apr;28(2):290-9. Russian.
PMID: 8183261 [PubMed - indexed for MEDLINE]
- 68: Lysov YuP, Chernyi AA, Balaev AA, Beattie KL, Mirzabekov AD Books, Cited in PMC, Related Ar
DNA sequencing by hybridization to oligonucleotide matrix. Calculation
continuous stacking hybridization efficiency.
J Biomol Struct Dyn. 1994 Feb;11(4):797-812.
PMID: 8204215 [PubMed - indexed for MEDLINE]
- 69: Livshits MA, Florentiev VL, Mirzabekov AD Books, Related Ar
Dissociation of duplexes formed by hybridization of DNA with gel-immc
oligonucleotides.
J Biomol Struct Dyn. 1994 Feb;11(4):783-95.
PMID: 8204214 [PubMed - indexed for MEDLINE]
- 70: Mirzabekov AD Books, Cited in PMC, Related Ar
DNA sequencing by hybridization--a megasequencing method and a diag
tool?
Trends Biotechnol. 1994 Jan;12(1):27-32. Review.
PMID: 7764555 [PubMed - indexed for MEDLINE]
- 71: Chkheidze AN, Prikhod'ko GG, Karpov VL, Vassilenko SK, Mirzabekov AD LinkOut, Books, R
Identification of DNA binding proteins in vaccinia virus by DNA-protein
crosslinking.
FEBS Lett. 1993 Dec 27;336(2):340-2.
PMID: 8262258 [PubMed - indexed for MEDLINE]
- 72: Mirzabekov AD Books, Related Ar
Chromatin structure: mapping proteins associated with genomic DNA usi
crosslinking.
Gene. 1993 Dec 15;135(1-2):111-8. Review.
PMID: 8276247 [PubMed - indexed for MEDLINE]

- 73: Brodolin KL, Studitsky VM, Mirzabekov AD. LinkOut, Books, Cited in PMC, R
Conformational changes in E. coli RNA polymerase during promoter recognition.
Nucleic Acids Res. 1993 Dec 11;21(24):5748-53.
PMID: 8284224 [PubMed - indexed for MEDLINE]
- 74: Belikov SV, Belgovsky AI, Partolina MP, Karpov VL, Mirzabekov AD. Books, Related Ar
Mapping and positioning DNA-binding proteins along genomic DNA. Studies on
D. melanogaster ribosomal 'Alu-repeats' and 1.688 satellite chromatin.
Nucleic Acids Res. 1993 Oct 11;21(20):4796-802.
PMID: 8233828 [PubMed - indexed for MEDLINE]
- 75: Lysov IuP, Chernyi AA, Balaev AA, Beattie KL, Florent'ev VL, Mirzabekov AD. LinkOut, Books, R
[Reconstruction of a sequenced sequence using results of stacked hybridization
on an oligonucleotide matrix]
Mol Biol (Mosk). 1993 Sep-Oct;27(5):1126-38. Russian.
PMID: 8246935 [PubMed - indexed for MEDLINE]
- 76: Brodolin KL, Studitskii VM, Mirzabekov AD. Books, Related Ar
[Study of the structure of Escherichia coli RNA polymerase and its complex with
the lacUV5-promotor using protein-protein and DNA-protein crosslinks, formaldehyde]
Mol Biol (Mosk). 1993 Sep-Oct;27(5):1085-93. Russian.
PMID: 8246931 [PubMed - indexed for MEDLINE]
- 77: Bavykin S, Srebrevia L, Banchev T, Tsanev R, Zlatanova J, Mirzabekov A. LinkOut, Books, Free in PMC, R
Histone H1 deposition and histone-DNA interactions in replicating chromosomes.
Proc Natl Acad Sci U S A. 1993 May 1;90(9):3918-22.
PMID: 8483911 [PubMed - indexed for MEDLINE]
- 78: Belikov SV, Belgovsky AI, Proobrazhenskaya OV, Karpov VL, Mirzabekov AD. Books, Cited in PMC, Related Ar
Two non-histone proteins are associated with the promoter region and histone
with the transcribed region of active hsp-70 genes as revealed by UV-induced
protein crosslinking in vivo.
Nucleic Acids Res. 1993 Feb 25;21(4):1031-4.
PMID: 8451170 [PubMed - indexed for MEDLINE]
- 79: Livshits MA, Ivanov IB, Mirzabekov AD, Florent'ev VL. LinkOut, Books, R
[DNA sequencing by hybridization with an oligonucleotide matrix (SHO) and
theory of DNA elution after hybridization]
Mol Biol (Mosk). 1992 Nov-Dec;26(6):1298-313. Russian.
PMID: 1491673 [PubMed - indexed for MEDLINE]
- 80: Mirzabekov AD. Books, Related Ar
[New strategies for DNA sequencing and determining protein location in
DNA]
Bioorg Khim. 1992 Oct-Nov;18(10-11):1361-74. Russian.
PMID: 1299217 [PubMed - indexed for MEDLINE]
- 81: Cantor CR, Mirzabekov A, Southern E. Books, Related Ar
Report on the sequencing by hybridization workshop.
Genomics. 1992 Aug;13(4):1378-83. No abstract available.
PMID: 1505980 [PubMed - indexed for MEDLINE]
- 82: Prikhod'ko GG, Chkheidze AN, Urmanov IKh, Karpov VL. LinkOut, Books, R

Petrulina SJ, Vasilenko SK, Mirzabekov AD.

[Identification of DNA-binding proteins of the intracellular virion of the virus]

Dokl Akad Nauk. 1992;323(4):789-93. Russian. No abstract available.

PMID: 1425168 [PubMed - indexed for MEDLINE]

- 83: Pevzner PA, Lysov YuP, Khrapko KR, Belyavsky AV, Florentiev VL, Mirzabekov AD. Books, Cited in PMC, Related Art

Improved chips for sequencing by hybridization.

J Biomol Struct Dyn. 1991 Oct;9(2):399-410.

PMID: 1741970 [PubMed - indexed for MEDLINE]

- 84: Gushchin DU, Ebralidze KK, Mirzabekov AD. LinkOut, Books, Domains, R

[Structure of nucleosomes. Localization of the H2A and H2B histone segments interacting with DNA using DNA-protein crosslinking]

Mol Biol (Mosk). 1991 Sep-Oct;25(5):1400-11. Russian.

PMID: 1753964 [PubMed - indexed for MEDLINE]

- 85: Khrapko KR, Khorlin AA, Ivanov IB, Chernov BK, Lysov YuP, Vasilenko SK, Florentiev VL, Mirzabekov AD. LinkOut, Books, Cited in PMC, R

[Hybridization of DNA with oligonucleotides immobilized in a gel: a convenient method for recording single base replacements]

Mol Biol (Mosk). 1991 May-Jun;25(3):718-30. Russian.

PMID: 1944254 [PubMed - indexed for MEDLINE]

- 86: Pevzner PA, Lysov YuP, Khrapko KR, Belyavskii AV, Florentiev VL, Mirzabekov AD. LinkOut, Books, R

[Optimal chips for megabase DNA sequencing]

Mol Biol (Mosk). 1991 Mar-Apr;25(2):552-62. Russian.

PMID: 1881398 [PubMed - indexed for MEDLINE]

- 87: Postnikov YV, Shick VV, Belyavsky AV, Khrapko KR, Brodolin KL, Nikolskaya TA, Mirzabekov AD. Books, Cited in PMC, Related Art

Distribution of high mobility group proteins 1/2, E and 14/17 and linker histone H5 on transcribed and non-transcribed regions of chicken erythrocyte chromatin.

Nucleic Acids Res. 1991 Feb 25;19(4):717-25.

PMID: 2017359 [PubMed - indexed for MEDLINE]

- 88: Khorlin AA, Khrapko KR, Ivanov IB, Lysov YuP, Yershov GK, Vasilenko SK, Florentiev VL, Mirzabekov AD. Books, Related Art

An oligonucleotide matrix hybridization approach to DNA sequencing.

Nucleic Acids Symp Ser. 1991;(24):191-2. No abstract available.

PMID: 1841281 [PubMed - indexed for MEDLINE]

- 89: Ivanov IB, Khrapko KR, Chernov BK, Khorlin AA, Lysov YuP, Florentiev VL, Mirzabekov AD. Books, Related Art

Hybridization properties of gel-immobilized oligonucleotides.

Nucleic Acids Symp Ser. 1991;(24):189-90. No abstract available.

PMID: 1841279 [PubMed - indexed for MEDLINE]

- 90: Khrapko KR, Lysov YuP, Khorlin AA, Ivanov IB, Yershov GM, Vasilenko SK, Florentiev VL, Mirzabekov AD. Books, Cited in PMC, Related Art

A method for DNA sequencing by hybridization with oligonucleotide matrix.

DNA Seq. 1991;1(6):375-88.

PMID: 1768861 [PubMed - indexed for MEDLINE]

- 91: Belikov SV, Dzherbashyan AR, Proobrazhenskaya OV, Karpov LinkOut, Books, R

VL, Mirzabekov ADChromatin structure of *Drosophila melanogaster* ribosomal genes.

FEBS Lett. 1990 Oct 29;273(1-2):205-7.

PMID: 2121541 [PubMed - indexed for MEDLINE]

- 92: Bavykin SG, Usachenko SI, Zalensky AO, Mirzabekov AD. LinkOut. Books. Cited in PMC. R

Structure of nucleosomes and organization of internucleosomal DNA in c

J Mol Biol. 1990 Apr 5;212(3):495-511.

PMID: 2325131 [PubMed - indexed for MEDLINE]

- 93: Mirzabekov AD, Pruss DV, Ebralidse KK. LinkOut. Books. Cited in PMC. R

Chromatin superstructure-dependent crosslinking with DNA of the histone residues Thr1, His25 and His62.

J Mol Biol. 1990 Jan 20;211(2):479-91.

PMID: 2106584 [PubMed - indexed for MEDLINE]

- 94: Postnikov IuV, Shik VV, Beliavskii AV, Brodolin KL, Khrapko KR, Nikol'skaia TA, Mirzabekov AD. Books, Related Ar

[Chromosomal proteins in chick embryo erythrocytes on transcriptionally inactive genes]

Mol Biol (Mosk). 1989 Nov-Dec;23(6):1682-91. Russian.

PMID: 2633039 [PubMed - indexed for MEDLINE]

- 95: Khrapko KR, Lysov YuP, Khorlyn AA, Shick VV, Florentiev VL, Mirzabekov AD. LinkOut. Books. Cited in PMC. R

An oligonucleotide hybridization approach to DNA sequencing.

FEBS Lett. 1989 Oct 9;256(1-2):118-22.

PMID: 2680594 [PubMed - indexed for MEDLINE]

- 96: Nacheva GA, Guschin DY. Books. Cited in Books, Nucleotide, Cited in PMC, Protein, Related Ar

PreobrazhenskayaOV, Karpov VL,Ebralidse KK,Mirzabekov AD.

Change in the pattern of histone binding to DNA upon transcriptional act

Cell. 1989 Jul 14;58(1):27-36.

PMID: 2502314 [PubMed - indexed for MEDLINE]

- 97: Manning GS, Ebralidse KK, Mirzabekov AD, Rich A. Books. Cited in PMC, Related Ar

An estimate of the extent of folding of nucleosomal DNA by laterally asy neutralization of phosphate groups.

J Biomol Struct Dyn. 1989 Apr;6(5):877-89.

PMID: 2590506 [PubMed - indexed for MEDLINE]

- 98: Mirzabekov AD, Bavykin SG, Belyavsky AV, LinkOut. Books. Cited in PMC. R
Karpov VL, Preobrazhenskaya OV, Shick VV,
Ebralidse KK.

Mapping DNA-protein interactions by cross-linking.

Methods Enzymol. 1989;170:386-408. No abstract available.

PMID: 2770546 [PubMed - indexed for MEDLINE]

- 99: Studitsky VM, Belyavsky AV, Melnikova AF, Mirzabekov AD. Books, Related Ar

The structure of nucleosomal core particles within transcribed and repressed regions.

Nucleic Acids Res. 1988 Dec 9;16(23):11187-205.

PMID: 3144704 [PubMed - indexed for MEDLINE]

- 100: Pruss DV, Ebralidze KK, Mirzabekov AD. Books, Related Ar
[The type of interaction of histone H5 with DNA changes significantly
stages of chromatin condensation]
Mol Biol (Mosk). 1988 Jul-Aug;22(4):1108-18. Russian.
PMID: 3185531 [PubMed - indexed for MEDLINE]
- 101: Studitskii VM, Beliavskii AV, Melnikova AF, Mirzabekov AD. Books, Related Ar
[The structure of nucleosomal core particles located on the transcribed ge
regions]
Mol Biol (Mosk). 1988 May-Jun;22(3):706-17. Russian.
PMID: 3141777 [PubMed - indexed for MEDLINE]
- 102: Bavykin SG, Usachenko SI, Mirzabekov AD. Books, Related Ar
[Comparison of the primary structure of reconstructed minimal nucleosor
nucleosomes isolated from the chromatin]
Mol Biol (Mosk). 1988 Mar-Apr;22(2):531-7. Russian.
PMID: 3393154 [PubMed - indexed for MEDLINE]
- 103: Bavykin SG, Usachenko SI, Zalenskii AO, Mirzabekov AD. Books, Related Ar
[Structure of nucleosomes and organization of inter-nucleosomal DNA in
chromatin]
Mol Biol (Mosk). 1988 Mar-Apr;22(2):517-30. Russian.
PMID: 3393153 [PubMed - indexed for MEDLINE]
- 104: Ebralidze KK, Grachev SA, Mirzabekov AD. Books, Domains. Cited in PMC, Protein, Related Ar
A highly basic histone H4 domain bound to the sharply bent region of nu
DNA.
Nature. 1988 Jan 28;331(6154):365-7.
PMID: 3340182 [PubMed - indexed for MEDLINE]
- 105: Ozherbash'ian AR, Vashakidze RP, Karpov VL, Kolchinskii AM, Mirzabekov AD. Books, Related Ar
[Gradient condensation of chromatin in ribosomal genes of *Drosophila*
melanogaster]
Mol Biol (Mosk). 1988 Jan-Feb;22(1):231-41. Russian.
PMID: 3131662 [PubMed - indexed for MEDLINE]
- 106: Lishanskaia AI, Bavykin SG, Schuster T, Grunstein M, Mirzabekov AD. Books, Related Ar
[The structure of nucleosomes containing the mutant H2B histone]
Dokl Akad Nauk SSSR. 1988;300(2):482-5. Russian. No abstract available.
PMID: 3048947 [PubMed - indexed for MEDLINE]
- 107: Pruss DV, Mirzabekov AD. Books, Related Ar
[Identification of histone H5 regions contacting with DNA in chromatin i
protein crosslinking]
Dokl Akad Nauk SSSR. 1987;297(6):1485-8. Russian. No abstract available.
PMID: 3447871 [PubMed - indexed for MEDLINE]
- 108: Ebralidze KK, Mirzabekov AD. Books, Domains, Related Ar
[One-domain interaction of histone H4 with DNA within the nucleosoma
particle]
Dokl Akad Nauk SSSR. 1986 Mar-Apr;287(1):241-4. Russian. No abstract available.
PMID: 3082611 [PubMed - indexed for MEDLINE]
- 109: Ebralidze KK, Mirzabekov AD. Books, Domains, Related Ar

One-domain interaction of histone H4 with nucleosomal core DNA is res
narrow DNA segment.

FEBS Lett. 1986 Jan 1;194(1):69-72.

PMID: 3940891 [PubMed - indexed for MEDLINE]

- 110: Ebralidze KK, Volkov SK, Kirpichnikov MP, Mirzabekov AD, Bagv AA. LinkOut, Books, R

[Mapping of interactions of bacteriophage lambda cro-repressor with non
DNA using a method of DNA-protein chemical cross-linking]

Dokl Akad Nauk SSSR. 1986;287(4):1013-6. Russian. No abstract available.

PMID: 2940078 [PubMed - indexed for MEDLINE]

- 111: Stros M, Shick VV, Belyavsky AV, Mirzabekov AD. Books, Related Ar

Interaction of high mobility group proteins HMG 1 and HMG 2 with nuc
studied by gel electrophoresis.

Mol Biol Rep. 1985 Oct;10(4):221-6.

PMID: 4069107 [PubMed - indexed for MEDLINE]

- 112: Shick VV, Belyavsky AV, Mirzabekov AD. LinkOut, Books, Cited in PMC, R

Primary organization of nucleosomes. Interaction of non-histone high mo
group proteins 14 and 17 with nucleosomes, as revealed by DNA-protein
crosslinking and immunoaffinity isolation.

J Mol Biol. 1985 Sep 20;185(2):329-39.

PMID: 4057250 [PubMed - indexed for MEDLINE]

- 113: Bavkin SG, Usachenko SI, Lishanskaya AI, Shick VV, Belyavsky AV, Undritsov IM, Stokov AA, Zalenskaya IA, Mirzabekov AD. Books, Cited in PMC, Related Ar

Primary organization of nucleosomal core particles is invariable in repres
active nuclei from animal, plant and yeast cells.

Nucleic Acids Res. 1985 May 24;13(10):3439-59.

PMID: 4011430 [PubMed - indexed for MEDLINE]

- 114: Kolchinskii AM, Vashakidze RP, Preobrazhenskaya OV, Karpov VL, Mirzabekov AD. Books, Cited in PMC, Related Ar

[Chromatin structure of ribosomal genes of Drosophila melanogaster. Rai
location of nucleosomes in DNA and characteristics of organization of nc
transcribed spacer]

Mol Biol (Mosk). 1984 Jul-Aug;18(4):1141-50. Russian.

PMID: 6095027 [PubMed - indexed for MEDLINE]

- 115: Karpov VL, Preobrazhenskaya OV, Mirzabekov AD. LinkOut, Books, R

Chromatin structure of hsp 70 genes, activated by heat shock: selective re
histones from the coding region and their absence from the 5' region.

Cell. 1984 Feb;36(2):423-31.

PMID: 6420075 [PubMed - indexed for MEDLINE]

- 116: Preobrazhenskaya OV, Karpov VL, Nagorskaia TV, Mirzabekov AD. Books, Related Ar

[Structure of the transcription-active chromatin]

Mol Biol (Mosk). 1984 Jan-Feb;18(1):8-20. Russian.

PMID: 6423969 [PubMed - indexed for MEDLINE]

- 117: Shik VV, Belyavskii AV, Mirzabekov AD, Ernekova VM, Beletskii IP. Books, Domains, Related Ar

[New immunochemical method of localizing proteins on DNA. The prim
organization of nucleosomes containing proteins HMG 14 and 17]

Dokl Akad Nauk SSSR. 1984;279(5):1254-6. Russian. No abstract available.

PMID: 6394256 [PubMed - indexed for MEDLINE]

- 118: Kurpenchuk KG, Minchenkova LE, Vengerov Iulu, Undritsov IM, Mirzabekov AD. Books, Related Ar
[Unfolding of nucleosome cores induced by chemical acetylation of histone]
Mol Biol (Mosk). 1983 Jul-Aug;17(4):855-67. Russian.
PMID: 6621526 [PubMed - indexed for MEDLINE]
- 119: Mirzabekov AD, Bavykin SG, Karpov VL, Preobrazhenskaya OV, LinkOut, Books, R Ebralidze KK, Tuneev VM, Melnikova AF, Gogvadze EG, Chenchik AA, Beabekashvili RS.
Structure of nucleosomes, chromatin, and RNA polymerase-promoter complex revealed by DNA-protein cross-linking.
Cold Spring Harb Symp Quant Biol. 1983;47 Pt 1:503-10. No abstract available.
PMID: 6574856 [PubMed - indexed for MEDLINE]
- 120: Naktinis VI, Undritsov IM, Mirzabekov AD. Books, Related Ar
[Isolation, some properties and heterogeneous nature of DNA-topoisomerase (relaxing enzyme) from Ehrlich ascites carcinoma cells]
Biokhimiia. 1982 Nov;47(11):1918-27. Russian.
PMID: 6295517 [PubMed - indexed for MEDLINE]
- 121: Karpov VL, Bavykin SG, Preobrazhenskaya OV, Belyavsky AV, Mirzabekov AD. Books, Cited in PMC, Related Ar
Alignment of nucleosomes along DNA and organization of spacer DNA in Drosophila chromatin.
Nucleic Acids Res. 1982 Jul 24;10(14):4321-37.
PMID: 6812025 [PubMed - indexed for MEDLINE]
- 122: Kolchinskii AM, Vashakidze RP, Evgen'ev MB, Mirzabekov AD. Books, Related Ar
[Cloning and study of inserted sequences of gene 28S in Drosophila mela ribosomal RNA]
Mol Biol (Mosk). 1982 Mar-Apr;16(2):302-14. Russian.
PMID: 6280035 [PubMed - indexed for MEDLINE]
- 123: Chenchik AA, Bibilashvili RSh, Mirzabekov AD, Shik VV. Books, Cited in PMC, Related Ar
[Contacts of Escherichia coli RNA polymerase subunits with nucleotides promoter]
Mol Biol (Mosk). 1982 Jan-Feb;16(1):35-46. Russian.
PMID: 7040939 [PubMed - indexed for MEDLINE]
- 124: Ebralidze KK, Tuneev VM, Melnikova AF, Gogvadze EG, Mirzabekov AD. Books, Related Ar
[Chromatin structure. An analysis of the lysine residues in histone molecules participating in the interaction with DNA by using their covalent cross-linking]
Dokl Akad Nauk SSSR. 1982;265(5):1273-8. Russian. No abstract available.
PMID: 6813090 [PubMed - indexed for MEDLINE]
- 125: Chenchik A, Beabekashvili R, Mirzabekov A. Books, Nucleotide, Cited in PMC, Protein, Related Ar
Topography of interaction of Escherichia coli RNA polymerase subunits with UV5 promoter.
FEBS Lett. 1981 Jun 1;128(1):46-50. No abstract available.
PMID: 7023981 [PubMed - indexed for MEDLINE]
- 126: Mirzabekov AD. Books, Related Ar
Mobile genetic elements: new Soviet studies.
Nature. 1981 May 7;291(5810):12. No abstract available.
PMID: 6262647 [PubMed - indexed for MEDLINE]

- 127: Zayetz VW, Bavykin SG, Karpov VL, Mirzabekov AD. Books, Related Ar
 Stability of the primary organization of nucleosome core particles upon s
 conformational transitions.
 Nucleic Acids Res. 1981 Mar 11;9(5):1053-68.
 PMID: 7232210 [PubMed - indexed for MEDLINE]
- 128: Levina ES, Bavykin SG, Shick VV, Mirzabekov AD. Books, Related Ar
 The method of crosslinking histones to DNA partly depurinated at neutra
 Anal Biochem. 1981 Jan 1;110(1):93-101. No abstract available.
 PMID: 7212274 [PubMed - indexed for MEDLINE]
- 129: Kolchinskii AM, Vashkidze RP, Mirzabekov AD. Books, Related Ar
 [Simple method of cloning eukaryote DNA: production of certain new rit
 genes of Drosophila]
 Mol Biol (Mosk). 1980 Sep-Oct;14(5):1098-1109. Russian.
 PMID: 6252449 [PubMed - indexed for MEDLINE]
- 130: Levina ES, Bavykin SG, Shik VV, Mirzabekov AD. Books, Related Ar
 [Interaction of histones with DNA in chromatin. A new method of coval
 of histones to DNA available for their localization on DNA]
 Biokhimiia. 1980 Jun;45(6):1133-45. Russian.
 PMID: 6783129 [PubMed - indexed for MEDLINE]
- 131: Belyavsky AV, Bavykin SG, Gogvadze EG, Mirzabekov AD. Books, Cited in PMC, Related Ar
 Primary organization of nucleosomes containing all five histones and DN
 165 base-pairs long.
 J Mol Biol. 1980 May 25;139(3):519-36. No abstract available.
 PMID: 7441743 [PubMed - indexed for MEDLINE]
- 132: Shick VV, Belyavsky AV, Bavykin SG, Mirzabekov AD. Books, Related Ar
 Primary organization of the nucleosome core particles. Sequential arrang
 histones along DNA.
 J Mol Biol. 1980 May 25;139(3):491-517. No abstract available.
 PMID: 7441742 [PubMed - indexed for MEDLINE]
- 133: Melnikova AF, Kolchinskii AM, Golovonov EI, Mirzabekov AD. Books, Related Ar
 [Length of nucleosomal DNA repeat in whole cells, fixed by freezing in t
 presence of formaldehyde]
 Mol Biol (Mosk). 1980 May-Jun;14(3):549-57. Russian.
 PMID: 7402200 [PubMed - indexed for MEDLINE]
- 134: Mirzabekov AD. Books, Related Ar
 Nucleosomes structure and its dynamic transitions.
 Q Rev Biophys. 1980 May;13(2):255-95. No abstract available.
 PMID: 7232694 [PubMed - indexed for MEDLINE]
- 135: Vashakidze RP, Karpenchuk KG, Nakrinis VI, Undritsov IM, Mirzabekov AD. Books, Related Ar
 [Drosophila melanogaster embryo factor capable of supercoiling circular
 closed DNA in the presence of core histones H2a, H2b, H3, H4 or protan
 Biokhimiia. 1980 Apr;45(4):718-22. Russian.
 PMID: 6769506 [PubMed - indexed for MEDLINE]
- 136: Mirzabekov AD, Belyavsky AV, Bavykin SG, Shick VV. LinkOut. Books, R
 Primary organization of nucleosomes and its functional implications.
 Biosystems. 1980;12(3-4):265-71. No abstract available.

PMID: 7397327 [PubMed - indexed for MEDLINE]

- 137: Mirzabekov AD, Rich A. Books, Cited in PMC, Related Ar
Asymmetric lateral distribution of unshielded phosphate groups in nucleosomal DNA and its role in DNA bending.
Proc Natl Acad Sci U S A. 1979 Mar;76(3):1118-21.
PMID: 286297 [PubMed - indexed for MEDLINE]
- 138: Mirzabekov AD, Shick VV, Belyavsky AV, Bavykin SG. Books, Domains, Related Ar
Primary organization of nucleosome core particle of chromatin: sequence arrangement along DNA.
Proc Natl Acad Sci U S A. 1978 Sep;75(9):4184-8.
PMID: 279907 [PubMed - indexed for MEDLINE]
- 139: Kolchinskii AM, San'ko DF, Shik VV, Mirzabekov AD, Gineitis A. LinkOut, Books, R
[State of DNA slots in mono- and oligonucleosomes and in DNA complexed with individual histones]
Mol Biol (Mosk). 1978 Mar-Apr;12(2):365-71. Russian.
PMID: 349361 [PubMed - indexed for MEDLINE]
- 140: Melnikova AF, Beabekashvili R, Mirzabekov AD. Books, Related Ar
A study of unwinding of DNA and shielding of the DNA grooves by RNA polymerase by using methylation with dimethylsulphate.
Eur J Biochem. 1978 Mar;84(1):301-9.
PMID: 348467 [PubMed - indexed for MEDLINE]
- 141: Mirzabekov AD, Rich A. LinkOut, Books, R
[Possible role of asymmetrical neutralization of DNA by histones in the formation of nucleosomal DNA]
Dokl Akad Nauk SSSR. 1978;243(6):1581-4. Russian. No abstract available.
PMID: 743912 [PubMed - indexed for MEDLINE]
- 142: Mirzabekov AD, Belyavskii AV, Bavykin SG, Shik VV. Books, Related Ar
[Primary organization of nucleosomes: order of histone arrangement on DNA]
Dokl Akad Nauk SSSR. 1978;242(3):715-8. Russian. No abstract available.
PMID: 710259 [PubMed - indexed for MEDLINE]
- 143: Mirzabekov AD, Shick VV, Belyavsky AV, Karpov VL, Bavykin SG. Books, Related Ar
The structure of nucleosomes: the arrangement of histones in the DNA groove along the DNA chain.
Cold Spring Harb Symp Quant Biol. 1978;42 Pt 1:149-55. No abstract available.
PMID: 277336 [PubMed - indexed for MEDLINE]
- 144: Naktinis VI, Maleeva NE, San'ko DF, Mirzabekov AD. Books, Related Ar
[Two simple methods for isolation of DNA from various sources using cesium chloride]
Biokhimiia. 1977 Oct;42(10):1783-90. Russian.
PMID: 922066 [PubMed - indexed for MEDLINE]
- 145: Mirzabekov AD, Shik VV, Belyavskii AV. Books, Related Ar
[Preliminary sequence of histone distribution in nucleosome DNA. New method for localizing protein molecules in DNA]
Dokl Akad Nauk SSSR. 1977 Jul 21;235(3):710-3. Russian. No abstract available.
PMID: 902574 [PubMed - indexed for MEDLINE]

- 146: Mirzabekov AD, San'ko DF, Kolchinsky AM, Melnikova AF. LinkOut, Books, R
Protein arrangement in the DNA grooves in chromatin and nucleoprotein
and in vivo revealed by methylation.
Eur J Biochem. 1977 May 16;75(2):379-89. No abstract available.
PMID: 885136 [PubMed - indexed for MEDLINE]
- 147: Undritsov IM, Naktinis VI, Kolchinskii AM, Mirzabekov AD. Books, Related Ar
[Nature of the enzyme relaxing superhelical DNA and isolated in a histone
fraction]
Dokl Akad Nauk SSSR. 1977;234(6):1474-7. Russian. No abstract available.
PMID: 328252 [PubMed - indexed for MEDLINE]
- 148: Kolchinsky AM, Mirzabekov AD, Gilbert W, LIL. LinkOut, Books, R
Preferential protection of the minor groove of non-operator DNA by lac I
against methylation by dimethyl sulphate.
Nucleic Acids Res. 1976 Jan;3(1):11-8.
PMID: 1250692 [PubMed - indexed for MEDLINE]
- 149: Melnikova AF, Zasedatelev AS, Kolchinsky AM, Gursky GV, Zhuze AL, Grokhovsky SL, Mirzabekov AD. Books, Related Ar
Accessibility of the minor groove of DNA in chromatin to the binding of
netropsin and distamycin A.
Mol Biol Rep. 1975 Jul;2(2):135-42.
PMID: 1172183 [PubMed - indexed for MEDLINE]
- 150: Levina ES, Mirzabekov AD. LinkOut, Books, R
[Covalent binding of proteins with DNA in the chromatin structure]
Dokl Akad Nauk SSSR. 1975 Apr 11;(5):1222-5. Russian. No abstract available.
PMID: 1149603 [PubMed - indexed for MEDLINE]
- 151: Kolchinskii AM, Mirzabekov AD, Zasedatelev AC, Gurskii GV, Grokhovskii SL, Zhuze AL, Gottikh BP. LinkOut, Books, R
[Structure of the complexes of distamycin type antibiotics and actinomycin
DNA: new data on the localization of these antibiotics within the DNA
groove]
Mol Biol (Mosk). 1975 Jan-Feb;9(1):19-27. Russian.
PMID: 1241102 [PubMed - indexed for MEDLINE]
- 152: Mirzabekov AD, Kolchinsky AM. Books, Related Ar
Localization of some molecules within the grooves of DNA by modification
complexes with dimethyl sulphate.
Mol Biol Rep. 1974 Sep;1(7):385-90. No abstract available.
PMID: 4472898 [PubMed - indexed for MEDLINE]
- 153: Mirzabekov AD, Melnikova AF. LinkOut, Books, R
Localization of chromatin proteins within DNA grooves by methylation of
chromatin with dimethyl sulphate.
Mol Biol Rep. 1974 Sep;1(7):379-84. No abstract available.
PMID: 4472897 [PubMed - indexed for MEDLINE]
- 154: Mirzabekov AD, Bayev AA. Books, Related Ar
Investigation of recognition sites in valine tRNA I (Baker's yeast) by dissociation
molecule method.
Methods Enzymol. 1974;29(0):643-61. No abstract available.
PMID: 4368843 [PubMed - indexed for MEDLINE]
- 155: Mirzabekov AD, Griffin BE. Books, Related Ar

5 s RNA conformation. Studies of its partial T 1 ribonuclease digestion by electrophoresis and two-dimensional thin-layer chromatography.

J Mol Biol. 1972 Dec 50;72(3):633-43. No abstract available.

PMID: 4573842 [PubMed - indexed for MEDLINE]

156: Mirzabekov AD, Rhodes D, Finch JT, Klug A, Clark BF. Books, Related Ar

Crystallization of tRNAs as cetyltrimethylammonium salts.

Nat New Biol. 1972 May 3;237(70):27-8. No abstract available.

PMID: 4555593 [PubMed - indexed for MEDLINE]

157: Zavil'skii GB, Mirzabekov AD, Poletaev AI, Baev AA. LinkOut, Books, R

Circular dichroism of yeast valine tRNA and its halves.

Mol Biol. 1972 Mar-Apr;6(2):181-7. No abstract available.

PMID: 4644989 [PubMed - indexed for MEDLINE]

158: Mirzabekov AD, Lastity D, Levina ES, Bayev AA. Books, Related Ar

Localization of two recognition sites in yeast valine tRNA I.

Nat New Biol. 1971 Jan 6;229(1):21-2. No abstract available.

PMID: 4924632 [PubMed - indexed for MEDLINE]

159: Mirzabekov AD, Grunberger D, Krutilina AI, Holy A, Bayev AA. Books, Related Ar

Sorm F. Different anticodons in purified valine tRNA fractions from yeast.

Biochim Biophys Acta. 1968 Aug 23;166(1):75-81. No abstract available.

PMID: 5748830 [PubMed - indexed for MEDLINE]

160: Mirzabekov AD, Grunberger D, Bayev AA. Books, Related Ar

Binding of valine tRNA, fragments to 70-S, 50-S and 30-S ribosomal par

Biochim Biophys Acta. 1968 Aug 23;166(1):68-74. No abstract available.

PMID: 4880560 [PubMed - indexed for MEDLINE]

161: Venkstern TV, Li L, Krutilina AI, Mirzabekov AD, Akse'rod VD, Baev AA. Books, Related Ar

[Primary structure of valine transfer RNA I of baker's yeast. Nucleotide c oligonucleotides in ribonuclease hydrolysates]

Dokl Akad Nauk SSSR. 1967 Mar 11;173(2):459-62. Russian. No abstract available.

PMID: 5623092 [PubMed - indexed for MEDLINE]

162: Baev AA, Mirzabekov AD, Akse'rod VD, Venkstern TV, Li L, Krutilina AI, Fodor I, Kazarinova L. Books, Related Ar

[Primary structure of valine transport RNA I in baker's yeast. Partial recc of the molecule]

Dokl Akad Nauk SSSR. 1967 Mar-Apr;173(1):204-7. Russian. No abstract available.

PMID: 5623626 [PubMed - indexed for MEDLINE]

163: Mirzabekov AD, Grunberger D, Holy A, Bayev AA, Sorm F. LinkOut, Books, R

Recognition of synonym codons by purified yeast tRNA-val fractions and from tRNA1-val.

Biochim Biophys Acta. 1967;145(3):845-7. No abstract available.

PMID: 4863912 [PubMed - indexed for MEDLINE]

164: Mirzabekov AD, Krutilina AI, Baev AA. LinkOut, Books, R

[Ion exchange chromatography of RNA in a concentration-temperature gi

Dokl Akad Nauk SSSR. 1966 Aug 11;169(5):1199-202. Russian. No abstract available.

PMID: 5967981 [PubMed - indexed for MEDLINE]

165: Mirzabekov AD, Baev AA. Books, Related Ar

[Correlation between the hydrophilia of specific transfer RNA and their corresponding amino acids]

Biophysika. 1966;11(4):729-30. Russian. No abstract available.

PMID: 6000639 [PubMed - indexed for MEDLINE]

- ☐ 166:Li L, Venkstern TV, Mirzabekov AD, Krutilina AI, Baev AA. Books, Related Ar
[Oligonucleotides of the guanyl ribonuclease digest of yeast valine transfer RNA]
Biokhimiia. 1966 Jan-Feb;31(1):117-24. Russian. No abstract available.
PMID: 5982381 [PubMed - indexed for MEDLINE]

- ☐ 167:Grachev MA, Budowsky EI, Mirzabekov AD, Krutilina AI, Sandakhchiev LS. Books, Related Ar
A test for the "degeneracy" of valine-acceptor ribonucleic acid.
Biochim Biophys Acta. 1965 Nov 8;108(3):506-9. No abstract available.
PMID: 5867537 [PubMed - indexed for MEDLINE]

- ☐ 168:Krutilina AI, Mirzabekov AD, Venkstern TV, Baev AA. Books, Related Ar
[The nucleotide composition and oligonucleotides of the pyrimidyl-ribonuclease digest of valine-specific transfer RNA]
Biokhimiia. 1965 Nov-Dec;30(6):1225-35. Russian. No abstract available.
PMID: 5876259 [PubMed - indexed for MEDLINE]

- ☐ 169:Mirzabekov AD, Venksteri TV, Baev AA. LinkOut, Books, R
[Oligonucleotides in ribonuclease hydrolysates of total transport RNA from yeasts]
Biokhimiia. 1965 Jul-Aug;30(4):825-35. Russian. No abstract available.
PMID: 5882164 [PubMed - indexed for MEDLINE]

- ☐ 170:Mirzabekov AD, Baev AA. Books, Related Ar
[Study of primary structure of transfer RNA by means of enzymatic methylation]
Izv Akad Nauk SSSR Biol. 1965 Mar-Apr;2:221-30. Russian. No abstract available.
PMID: 5881173 [PubMed - indexed for MEDLINE]

- ☐ 171:Mirzabekov AD, Krutilina AI, Reshetov PD, Sandakhchiev LS, Knorre DG, Khokhlov AS, Baev AA. Books, Related Ar
[Preparation of enriched valine-acceptor soluble RNA from baker's yeast]
Dokl Akad Nauk SSSR. 1965 Feb 11;160(5):1200-2. Russian. No abstract available.
PMID: 5859010 [PubMed - indexed for MEDLINE]

Display Summary Show: 200 Sort Send to: Text
Items 1-171 of 171

Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer

06/02/03 14:46 FAX



1351405

Andrei D. Mirzabekov
Professor, Director

ENGELHARDT INSTITUTE of MOLECULAR BIOLOGY
RUSSIAN ACADEMY OF SCIENCES

Attention: Nick Sutcliffe
Fax: +44 20 7240 9339

Declaration

My extensive studies into the properties of nucleic acid hybridization, conducted over many years, have demonstrate that there are fundamental differences between the hybridization kinetics, chemistry, and capacity of solid surface 2D reaction surfaces compared to 3D supports comprised of gel matrices. Specifically, whereas a 2D surface is planar without significant liquid volume, a 3D support comprises ~95% liquid volume. The fact is that 3D supports have far greater typical molecular binding capacity, yield far greater hybridization signal strengths, and allow hybridization to proceed in a manner that is far more similar to liquid-based reactions rather than as would occur during 2D planar surface hybridizations.

The above characteristic differences between 2D surfaces and 3D supports are now widely known and accepted, and have been emphasized in several of my own peer reviewed publications.. For example;

A) In the article 'Livshits MA, Florentiev VL, Mirzabekov AD. Dissociation of duplexes formed by hybridization of DNA with gel-immobilized oligonucleotides. J Biomol Struct Dyn, 1994, 11:783-795' we specified that our work employs a "...matrix of oligonucleotides immobilized within polyacrylamide gel. The particular feature of this matrix is that the apparent thermostability [hybridization] of the duplexes depends on the concentration of gel-immobilized oligonucleotides. This dependence is specific for oligonucleotides immobilized in the gel volume (3-D-immobilization) rather than on a flat surface of a filter or glass (2-D-immobilization).

B) In 'Kolchinsky A, Mirzabekov A. Analysis of SNPs and other genomic variations using gel-based chips. Human Mutation, 2002, 19:343-60' we pointed out that "Tethering molecules within a three-dimensional gel significantly, 102 to 103 times, increases the immobilization capacity as compared with equivalent glass [2D] surface", and

"Interactions of macromolecules with gel-immobilized compounds occurs in the surrounding homogeneous liquid, and the physics of these processes is more similar to water solution than heterophase interactions with [2D] glass-immobilized compounds."

In total, I and others have now published many tens of papers on this subject over the last decade or more, with essentially all findings being in support of the above summarized observations. The conclusion is clear: hybridization data obtained from studies on 3D supports cannot be extrapolated to 2D surfaces.

Prof. A.D. Mirzabekov

30.01.03



Vavilova str. 32, Moscow 119991, Russia

Phones: +7 (095) 135-2311, 135-0559. Fax: +7 (095) 135-1405. E-mail: amir@eimb.ru